

Chapter 10

PWC System Log Messages

This chapter describes messages generated by the Process Watch Controller process (pwc), which monitors J20 gateway GPRS support node control-plane (GGSN-C) processes for failures.

PWC_EXIT

System Log Message	PWC_EXIT: Process <i>pwc-process-id</i> exiting with status <i>pwc-exit-status</i>
Description	The Process Watch Controller process (pwc) exited with the indicated exit status.
Type	Event: This message reports an event, not an error
Severity	info

PWC_HOLD_RELEASE

System Log Message	PWC_HOLD_RELEASE: Process <i>pwc-process-id</i> released child <i>child-process-id</i> from hold-down state
Description	The Process Watch Controller process (pwc) released the indicated child process from the hold-down state.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_INVALID_RUNS_ARGUMENT

System Log Message	PWC_INVALID_RUNS_ARGUMENT: <i>value</i> : allowed process runs must be ≥ 1 , not <i>argument</i>
Description	The number of allowed runs specified on the command line for the Process Watch Controller process (pwc) was invalid.
Type	Error: An error occurred
Severity	error

PWC_INVALID_TIMEOUT_ARGUMENT

- **System Log Message** PWC_INVALID_TIMEOUT_ARGUMENT:
value: invalid 0 or negative timeout for *argument*
- **Description** The value specified for the timeout argument on the command line for the Process Watch Controller process (pwc) was too short or a negative number.
- **Type** Error: An error occurred
- **Severity** error

PWC_KILLED_BY_SIGNAL

- **System Log Message** PWC_KILLED_BY_SIGNAL:
pwc process *pwc-process-id* received terminating signal
- **Description** The Process Watch Controller process (pwc) process exited because it received a terminating signal.
- **Type** Event: This message reports an event, not an error
- **Severity** notice

PWC_KILL_EVENT

- **System Log Message** PWC_KILL_EVENT:
pwc is sending signal *signal-name* to child *child-pid*
- **Description** The Process Watch Controller process (pwc) sent a termination signal to the child process it was created to monitor.
- **Type** Event: This message reports an event, not an error
- **Severity** info

PWC_KILL_FAILED

- **System Log Message** PWC_KILL_FAILED:
Unable to kill process *child-pid*: *error (error-number)*
- **Description** The Process Watch Controller process (pwc) could not terminate the child process it was created to monitor.
- **Type** Error: An error occurred
- **Severity** error

PWC_KQUEUE_ERROR

System Log Message	PWC_KQUEUE_ERROR: kevent failed: <i>error-message</i>
Description	The Process Watch Controller process (pwc) could not receive an event from the kernel queue.
Type	Error: An error occurred
Severity	emergency

PWC_KQUEUE_INIT

System Log Message	PWC_KQUEUE_INIT: Unable to create kqueue: <i>error-message</i>
Description	The Process Watch Controller process (pwc) could not initialize the kernel queue.
Type	Error: An error occurred
Severity	emergency

PWC_KQUEUE_REGISTER_FILTER

System Log Message	PWC_KQUEUE_REGISTER_FILTER: Failed to register kqueue filter: <i>filter-name</i> for purpose: <i>error-message</i>
Description	The Process Watch Controller process (pwc) failed to register a kernel event queue filter event.
Type	Error: An error occurred
Severity	emergency

PWC_LOCKFILE_BAD_FORMAT

System Log Message	PWC_LOCKFILE_BAD_FORMAT: PID lock file has bad format: <i>lock-file-path</i>
Description	The Process Watch Controller process (pwc) could not parse the indicated locked PID file because its contents were invalid.
Type	Error: An error occurred
Severity	error

PWC_LOCKFILE_ERROR

- **System Log Message** PWC_LOCKFILE_ERROR:
PID lock file had error: *lock-file-path*: *error (error-number)*
- **Description** The Process Watch Controller process (pwc) could not read the indicated locked PID file for a child process.
- **Type** Error: An error occurred
- **Severity** error

PWC_LOCKFILE_MISSING

- **System Log Message** PWC_LOCKFILE_MISSING:
PID lock file not found: *lock-file-path*
- **Description** The Process Watch Controller process (pwc) could not find the indicated locked PID file for a child process.
- **Type** Event: This message reports an event, not an error
- **Severity** info

PWC_LOCKFILE_NOT_LOCKED

- **System Log Message** PWC_LOCKFILE_NOT_LOCKED:
PID lock file not locked: *lock-file-path*
- **Description** The Process Watch Controller process (pwc) found that the indicated PID file for a child process was unlocked when it should be locked.
- **Type** Event: This message reports an event, not an error
- **Severity** info

PWC_NO_PROCESS

- **System Log Message** PWC_NO_PROCESS:
No process specified
- **Description** The child process for the Process Watch Controller process (pwc) to monitor must be specified when the pwc process starts. No child process was specified.
- **Type** Error: An error occurred
- **Severity** error

PWC_PROCESS_EXIT

System Log Message	PWC_PROCESS_EXIT: pwc process <i>pwc-process-id</i> child <i>child-process-id</i> exited with status <i>child-exit-status</i>
Description	The child process of the Process Watch Controller process (pwc) exited with the specified exit status.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_FORCED_HOLD

System Log Message	PWC_PROCESS_FORCED_HOLD: Process <i>pwc-process-id</i> forcing hold down of child <i>child-process-id</i> until signal
Description	The Process Watch Controller process (pwc) received a signal directing it to hold down the indicated child process forcibly on exit due to a signal.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_HOLD

System Log Message	PWC_PROCESS_HOLD: Process <i>pwc-process-id</i> holding down child <i>child-process-id</i> until signal
Description	The Process Watch Controller process (pwc) held down the indicated child process after the child exited, preventing the child from restarting.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_HOLD_SKIPPED

System Log Message	PWC_PROCESS_HOLD_SKIPPED: Process <i>pwc-process-id</i> will not down child <i>child-process-id</i> because of fast-kill option
Description	The 'fast-kill' option was included on the command line for the Process Watch Controller process (pwc), so the pwc process will not hold down its child process when the child exits.
Type	Event: This message reports an event, not an error
Severity	info

• PWC_PROCESS_OPEN

- **System Log Message** PWC_PROCESS_OPEN:
Failed to create child process with pidopen: *error (error-number)*
- **Description** The Process Watch Controller process (pwc) exited because it could not create a child process.
- **Type** Error: An error occurred
- **Severity** emergency

• PWC_PROCESS_TIMED_HOLD

- **System Log Message** PWC_PROCESS_TIMED_HOLD:
Process *pwc-process-id* holding down child *child-process-id* for *hold-time* seconds or until signal
- **Description** The Process Watch Controller process (pwc) held down the indicated exiting child process temporarily, preventing it from restarting.
- **Type** Event: This message reports an event, not an error
- **Severity** notice

• PWC_PROCESS_TIMEOUT

- **System Log Message** PWC_PROCESS_TIMEOUT:
Child timed out while *process-state*
- **Description** The child process monitored by the Process Watch Controller process (pwc) timed out and will be terminated.
- **Type** Event: This message reports an event, not an error
- **Severity** notice

• PWC_SIGNAL_INIT

- **System Log Message** PWC_SIGNAL_INIT:
signal(*signal-name*) failed: *error (error-number)*
- **Description** The Process Watch Controller process (pwc) failed to initialize the indicated signal handler.
- **Type** Error: An error occurred
- **Severity** emergency

PWC_SOCKET_CONNECT

System Log Message	PWC_SOCKET_CONNECT: Unable to connect socket to <i>destination</i> : <i>error</i>
Description	The Process Watch Controller process (pwc) could not connect to a Routing Engine process.
Type	Error: An error occurred
Severity	error

PWC_SOCKET_CREATE

System Log Message	PWC_SOCKET_CREATE: Failed to create socket: <i>error</i>
Description	The Process Watch Controller process (pwc) could not create a socket for communication with a Routing Engine process.
Type	Error: An error occurred
Severity	error

PWC_SOCKET_OPTION

System Log Message	PWC_SOCKET_OPTION: Unable to set socket option <i>socket-option</i> : <i>error</i>
Description	The Process Watch Controller process (pwc) could not set the indicated option on a socket for communication with a Routing Engine process, so socket initialization failed.
Type	Error: An error occurred
Severity	error

PWC_STDOUT_WRITE

System Log Message	PWC_STDOUT_WRITE: Write to stdout failed: <i>error</i> (<i>error-number</i>)
Description	The Process Watch Controller process (pwc) could not write to standard output but continued to run.
Type	Error: An error occurred
Severity	error

- PWC_SYSTEM_CALL

- **System Log Message** PWC_SYSTEM_CALL:
function-call: error (error-number)
 - **Description** The indicated system call failed with the indicated error.
 - **Type** Error: An error occurred
 - **Severity** error
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- PWC_UNKNOWN_KILL_OPTION
- **System Log Message** PWC_UNKNOWN_KILL_OPTION:
Unknown kill option [*invalid-option*]
 - **Description** The indicated kill option included on the command line for the Process Watch Controller process (pwc) was invalid.
 - **Type** Error: An error occurred
 - **Severity** error